

## AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method comprising:  
storing native code associated with a first method within a native code space;  
determining whether the said native code space exceeds a threshold in response to  
an invocation of a second method; and  
reclaiming the said native code associated with the said first method and  
compiling byte code into native code associated with the said second  
method in response to the said determination.
2. (Currently Amended) The method as set forth in claim 2, wherein reclaiming the said native code associated with the said first method and compiling byte code into native code associated with the said second method in response to the said determination comprises reclaiming the said native code associated with the said first method in response to a determination that the said native code space exceeds the said threshold.
3. (Currently Amended) The method as set forth in claim 2, further comprising storing the said native code associated with the said second method within the said native code space in response to the said compilation.
4. (Currently Amended) The method as set forth in claim 2, further comprising:  
invoking the said first method following the said reclamation; and  
re-compiling byte code into the said native code associated with the said first  
method in response to the said invocation of the said first method.

5. (Currently Amended) The method as set forth in claim 2, wherein reclaiming the said native code associated with the said first method and compiling byte code into native code associated with the said second method in response to the said determination comprises compiling byte code into native code associated with the said second method ~~utilizing a JAVA virtual machine~~.
6. (Currently Amended) The method as set forth in claim 5, wherein compiling byte code into native code associated with the said second method ~~utilizing a JAVA virtual machine~~ comprises compiling byte code into native code associated with the said second method utilizing a just-in-time compiler.
7. (Currently Amended) The method as set forth in claim 2, wherein reclaiming the said native code associated with the said first method and compiling byte code into native code associated with the said second method in response to the said determination comprises: determining whether the said first method is active or inactive; and reclaiming the said native code associated with the said first method in response to a determination that the said first method is inactive.
8. (Currently Amended) The method as set forth in claim 7, wherein:  
reclaiming the said native code associated with the said first method and  
compiling byte code into native code associated with the said second  
method in response to the said determination further comprises  
determining whether the said first method is hot or cold in response to a  
determination that the said first method is inactive[[],]; and

reclaiming the said native code associated with the said first method in response to a determination that the said first method is inactive comprises reclaiming the said native code associated with the said first method in response to a determination that the said first method is cold.

9. (Currently Amended) A data processing system-readable medium having a plurality of instructions executable by a data processing system embodied therein, wherein the said plurality of instructions when executed cause the said data processing system to perform operations comprising:  
storing native code associated with a first method within a native code space;  
determining whether the said native code space exceeds a threshold in response to an invocation of a second method; and  
reclaiming the said native code associated with the said first method and compiling byte code into native code associated with the said second method in response to the said determination.
10. (Currently Amended) The data processing system-readable medium of claim 9, wherein reclaiming the said native code associated with the said first method and compiling byte code into native code associated with the said second method in response to the said determination comprises reclaiming the said native code associated with the said first method in response to a determination that the said native code space exceeds the said threshold.

11. (Currently Amended) The data processing system-readable medium of claim 9, wherein the said plurality of instructions when executed further cause the said data processing system to perform operations comprising storing the said native code associated with the said second method within the said native code space in response to the said compilation.
12. (Currently Amended) The data processing system-readable medium of claim 9, wherein the said plurality of instructions when executed further cause the said data processing system to perform operations comprising invoking the said first method following the said reclamation; and re-compiling byte code into the said native code associated with the said first method in response to the said invocation of the said first method.
13. (Currently Amended) The data processing system-readable medium of claim 9, wherein reclaiming the said native code associated with the said first method and compiling byte code into native code associated with the said second method in response to the said determination comprises compiling byte code into native code associated with the said second method ~~utilizing a JAVA virtual machine~~.
14. (Currently Amended) The data processing system-readable medium of claim 13, wherein compiling byte code into native code associated with the said second method ~~utilizing a JAVA virtual machine~~ comprises compiling byte code into native code associated with the said second method utilizing a just-in-time compiler.

15. (Currently Amended) The data processing system-readable medium of claim 9, wherein reclaiming the said native code associated with the said first method and compiling byte code into native code associated with the said second method in response to the said determination comprises: determining whether the said first method is active or inactive; and reclaiming the said native code associated with the said first method in response to a determination that the said first method is inactive.
16. (Currently Amended) The data processing system-readable medium of claim 15, wherein:
- reclaiming the said native code associated with the said first method and
- compiling byte code into native code associated with the said second method in response to the said determination further comprises
- determining whether the said first method is hot or cold[[,]]; and
- reclaiming the said native code associated with the said first method in response to a determination that the said first method is inactive comprises
- reclaiming the said native code associated with the said first method in response to a determination that the said first method is cold.
17. (Currently Amended) A data processing system comprising:
- a storage device;
- a processor coupled with the storage device, the processor to process data and
- execute instructions; and

a memory coupled with the storage device and the processor, the memory to store data including a plurality of instructions which when executed by the said processor cause the said data processing system to perform operations ~~comprising~~having storing native code associated with a first method within a native code space of the said memory[[:]]; determining whether the said native code space exceeds a threshold in response to an invocation of a second method[[:]]; and reclaiming the said native code associated with the said first method and compiling byte code into native code associated with the said second method in response to the said determination.

18. (Currently Amended) The data processing system of claim 17, wherein reclaiming the said native code associated with the said first method and compiling byte code into native code associated with the said second method in response to the said determination comprises reclaiming the said native code associated with the said first method in response to a determination that the said native code space exceeds the said threshold.
19. (Currently Amended) The data processing system of claim 17, wherein the said plurality of instructions when executed further cause the said data processing system to perform operations comprising storing the said native code associated with the said second method within the said native code space in response to the said compilation.

20. (Currently Amended) The data processing system of claim 17, wherein the said plurality of instructions when executed further cause the said data processing system to perform operations comprising invoking the said first method following the said reclamation; and
- re-compiling byte code into the said native code associated with the said first method in response to the said invocation of the said first method.
21. (Currently Amended) The data processing system of claim 17, wherein reclaiming the said native code associated with the said first method and compiling byte code into native code associated with the said second method in response to the said determination comprises compiling byte code into native code associated with the said second method ~~utilizing a JAVA virtual machine~~
22. (Currently Amended) The data processing system of claim 21, wherein compiling byte code into native code associated with the said second method ~~utilizing a JAVA virtual machine~~ comprises compiling byte code into native code associated with the said second method utilizing a just-in-time compiler.
23. (Currently Amended) The data processing system of claim 17, wherein reclaiming the said native code associated with the said first method and compiling byte code into native code associated with the said second method in response to the said determination comprises: determining whether the said first method is active or

inactive; and reclaiming the said native code associated with the said first method in response to a determination that the said first method is inactive.

24. (Currently Amended) The data processing system of claim 23, wherein:  
reclaiming the said native code associated with the said first method and  
compiling byte code into native code associated with the said second  
method in response to the said determination further comprises  
determining whether the said first method is hot or cold, and  
reclaiming the said native code associated with the said first method in response  
to a determination that the said first method is inactive comprises  
reclaiming the said native code associated with the said first method in  
response to a determination that the said first method is cold.

25. (New) An apparatus comprising:  
a processor to process data and execute instructions; and  
a memory coupled with the processor, the memory to store data including a  
plurality of instructions which when executed by the processor cause the  
data processing system to perform operations including  
storing native code associated with a first method within a native code  
space of the memory,  
determining whether the native code space exceeds a threshold in response  
to an invocation of a second method, and  
reclaiming the native code associated with the first method and compiling  
byte code into native code associated with the second method in  
response to the determination.



26. (New) The apparatus of claim 25, wherein reclaiming the native code associated with the first method and compiling byte code into native code associated with the second method in response to the determination includes reclaiming the native code associated with the first method in response to a determination that the native code space exceeds the threshold.
27. (New) The apparatus of claim 25, wherein the plurality of instructions when executed further cause the data processing system to perform operations including storing the native code associated with the second method within the native code space in response to the compilation.
28. (New) The apparatus of claim 25, wherein the plurality of instructions when executed further causes the data processing system to perform operations including  
invoking the first method following the reclamation, and  
re-compiling byte code into the native code associated with the first method in response to the invocation of the first method.